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(71) Applicant and

(72) Inventor: LONGO, Iginio [IT/IT]; Largo Duca D'Aosta,
11, I-56123 Pisa (IT).

(72) Inventor; and

(75) Inventor/Applicant (for US only): TOSORATTI, Nevio
[IT/IT]; Via R. Alessandri, 50, I-00151 Roma (IT).

(74) Agent: CELESTINO, Marco; ABM Agenzia Brevetti &
Marchi, Viale Giovanni Pisano, 31, I-56123 Pisa (IT).

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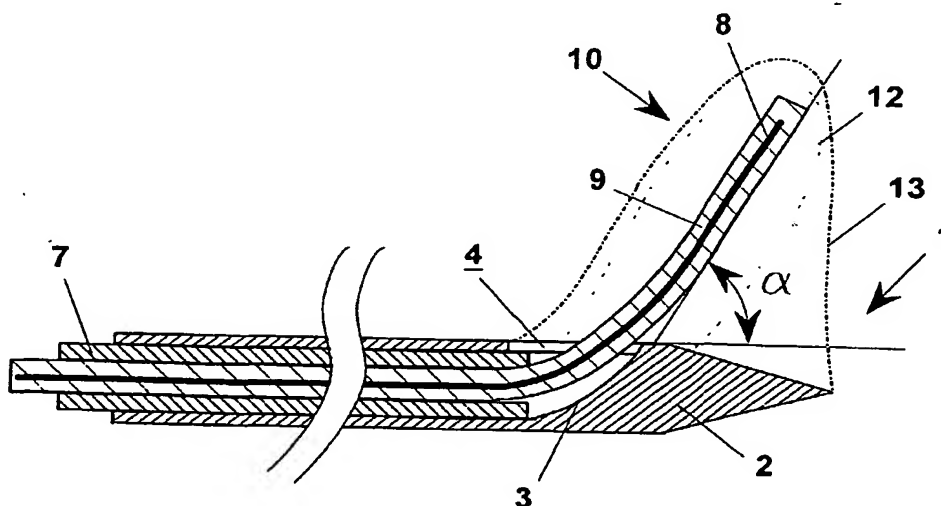
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(54) Title: INTERSTITIAL MICROWAVE ANTENNA WITH LATERAL EFFECT FOR TISSUES HYPERTHERMIA IN MINIMAL INVASIVE SURGERY



(57) **Abstract:** Application device (1), for example, a metal needle or a plastic catheter that has in the end portion (2) of the free end a gradually increasing thickness to form substantially a chute guide (3) which ends at a side opening (4) made on the application device (1). This way, an interstitial antenna (10) is obtained formed by a co-axial tube having an external conductor (7), by a dielectric layer (9) and by a central conductor (8) embedded in the dielectric layer (9) that insulates it from the external conductor (7). The antenna (10) can be put in a target tissue, along an actuation direction forming an angle α with the introduction direction. This way, the antenna (10) achieves an actual surface isothermal, i.e. a mass of tissue actually coagulated within a curved surface (13), since the tip of the application device (1) is connected electrically with the external conductor (7) and increases its area of action.